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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,595	01/23/2004	Habib Riazi	8-20-7	7729
75	90 03/11/2005		EXAMINER	
Ryan, Mason & Lewis, LLP			DUONG, DUC T	
Suite 205				
1300 Post Road			ART UNIT	PAPER NUMBER
Fairfield, CT 06824			2663	
			DATE MAILED: 03/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/763,595	RIAZI ET AL.	
Office Ac	tion Summary	Examiner	Art Unit	<u></u>
		Duc T. Duong	2663	
The MAILING I	DATE of this communication	appears on the cover sheet w	ith the correspondence address	s
THE MAILING DATE - Extensions of time may be after SIX (6) MONTHS from - If the period for reply specifing the NO period for reply is specifially the SIA on the Normal SIA on the SIA of the SIA on	OF THIS COMMUNICATIOn available under the provisions of 37 CFR in the mailing date of this communication. The mailing date of this communication are above is less than thirty (30) days, a scified above, the maximum statutory periet or extended period for reply will, by state that the communication is the communication of t	R 1.136(a). In no event, however, may a reply within the statutory minimum of thin	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	nication.
Status				
1) Responsive to	communication(s) filed on 23	<u>3 January 2004</u> .		
2a) This action is F	INAL. 2b)⊠ T	his action is non-final.		
3) Since this appli	cation is in condition for allow	wance except for formal matt	ters, prosecution as to the mer	rits is
closed in accor	dance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims	•			
4)⊠ Claim(s) <u>1-30</u> is	s/are pending in the applicati	ion.		
4a) Of the abov	e claim(s) is/are witho	drawn from consideration.		
5)	is/are allowed.			
6)⊠ Claim(s) <u>1-30</u> is				
7) Claim(s)	is/are objected to.			
8) Claim(s)	are subject to restriction and	d/or election requirement.		
Application Papers	•			
9) ☐ The specificatio	n is objected to by the Exam	iner.		
10) The drawing(s)	filed on is/are: a) a	accepted or b) objected to	by the Examiner.	
Applicant may no	ot request that any objection to t	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement dra	wing sheet(s) including the corr	rection is required if the drawing	(s) is objected to. See 37 CFR 1.	121(d).
11) The oath or dec	laration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-15	52.
Priority under 35 U.S.C.	§ 119			
a) All b) So 1. Certified 2. Certified 3. Copies o application	me * c) None of: copies of the priority docume copies of the priority docume f the certified copies of the p on from the International Bure	ents have been received in A priority documents have been	Application No received in this National Stag	ıe
Attachment(s)		" □	O	
 Notice of References Cite D Notice of Draftsperson's 	ed (P10-892) Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
	tatement(s) (PTO-1449 or PTO/SB/		nformal Patent Application (PTO-152)	1

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/763,595

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Sayeed (U.S. Patent 6,456,653 B1) in view of Schafer et al (U.S. Patent 6,134,267)..

Regarding to claims 1, 3, 9, and 11, Sayeed discloses an orthogonal frequency division multiplexing OFDM transmitter (Fig. 1) for transmitting a signal comprising an encoder 130 (col. 3 lines 65-67 and col. 4 lines 1-3) for modulating said signal, a transformer 150 (col. 4 lines 44-57) for creating said signal having a plurality of subcarriers, and means 140 (col. 4 lines 15-24) for inserting (padding) an identifying signal (zero) on inactive sub-carriers.

Sayeed fails to teach the identifying signal identifies a transmitter (claims 1 and 9) and the inactive sub-carriers will be modulated with a predetermined transmitter identifier information TII value (claims 3 and 11).

However, Schafer discloses a DAB system using a TII signal to identify a transmitter, wherein the TII signal is mapped onto a set of carriers (col. 1 lines 35-39).

Thus, it would have been obvious to one of ordinary skilled in the art, at the time of then invention, to employ a TII signal to identify a transmitter as taught by Schafer in

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Sayeed's system so that the receiver can automatically filter local information from a data stream.

Regarding to claims 2 and 10, Sayeed discloses the encoder differentially modulates said signal in the frequency domain (col. 3 lines 61-63).

Regarding to claims 4 and 12, Sayeed discloses the inactive sub-carriers carrying said identifying signal are transmitted at a reduced power (col. 5 lines 5 lines 51-56; noted the inactive carriers are transmitted at less power than the active carriers).

Regarding to claims 5 and 13, Sayees discloses the identifying value (zero) is mapped onto a set of complex symbols (col. 3 lines 46-50).

Regarding to claims 6 and 14, Sayeed discloses the inactive sub-carriers carrying said identifying signal are transmitted with each OFDM symbol (Fig. 4A col. 4 lines 5-27; the region 420 of buffer 140 shows the inactive sub-carriers carrying identifying signal or zero).

Regarding to claims 7 and 15, Sayeed discloses the transformer implements an Inverse Fast Fourier Transform (col. 4 lines 44-57).

Regarding to claims 8 and 16, Sayeed discloses the transformer implements an orthogonal transform (col. 3 lines 19-32).

Regarding to claims 17, 19, 24, and 26, Sayeed discloses an orthogonal frequency division multiplexing OFDM receiver (Fig. 2) for receiving a signal comprising a decoder 230 (col. 5 lines 25-34) for demodulating said signal, a transformer 220 (col. 5 lines 21-23) for transforming said received signal to recover an signal in the frequency

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domain having a plurality of sub-carriers, and means 225 (col. 5 lines 25-28) for processing an identifying signal (zero) received on inactive sub-carriers.

Sayeed fails to teach the identifying signal identifies a transmitter (claims 17 and 24) and the inactive sub-carriers will be modulated with a predetermined transmitter identifier information TII value (claims 19 and 26).

However, Schafer discloses a DAB system using a TII signal to identify a transmitter, wherein the TII signal is mapped onto a set of carriers (col. 1 lines 35-39).

Thus, it would have been obvious to one of ordinary skilled in the art, at the time of then invention, to employ a TII signal to identify a transmitter as taught by Schafer in Sayeed's system so that the receiver can automatically filter local information from a data stream.

Regarding to claims 18 and 25, Sayeed discloses decoder differentially demodulates said signal in the frequency domain (Fig. 2 col. 5 lines 25-34).

Regarding to claims 20 and 27, Sayeed discloses the inactive sub-carriers carrying said identifying signal are received at a reduced power (col. 5 lines 5 lines 51-56; noted the inactive carriers are received at less power than the active carriers).

Regarding to claims 21, and 28, Sayeed discloses the inactive sub-carriers carrying said identifying signal are received with each OFDM symbol (Fig. 4A col. 5 lines 5-27; the region 420 of buffer 140 shows the inactive sub-carriers carrying identifying signal or zero).

Regarding to claims 22, and 29, Sayeed discloses the transformer implements a Fast Fourier Transform (col. 5 lines 21-23).

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Regarding to claims 23, and 30, Sayeed discloses the transformer implements an orthogonal transform (Fig. 3 col. 5 lines 40-50).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-F (9:00 AM-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DD DD

PRIMARY EXAMINER